Jon Bully

1 片田 921

अगरत की राजपश

्रपाधिकार से प्रकाशित PUBLISHED BY AUTHORITY

सं० 1] No. 1] नई दिल्ली, शनिवार, जनवरी 1. 2000

NEW DELHI, SATURDAY, JANUARY 1, 2000 (PAUSA 11, 1921)

इस माग में भिन्न पुछ वस्या है जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके [Separate paging is given to this l'art in order that it may be filed as a separate compilation]

भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्झन्धित अधिसूचनाएं और नोटिस । [Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE PATENTS AND DESIGNS

Calcutta, the 1st January 2000

ADDRESS AND JURISDICTION OF THE OFFICES OF THE PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Mumbai, Delhi and Chennai having territorial Jurisdiction on a Zonal basis as shown below:—

Patent Office Branch, Todi Estates, IIIrd Floor, Lower Parel (West), Mumbai-400 013,

The States of Gujarat, Maharashtra, Madhya Pradesh and Goa and the Union Territories of Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE" Phone No. 482 5092 Fax No. 022 495 0622.

> Patent Office Branch, Unit No. 401 to 405, IIIrd Floor Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110 005.

The States of Haryana. Himachal Pradesh, Iammu and Kashnir, Punjab, Rajasthan, Uttar Pradesh and Delhi and the Union Territory of Chandigarh.

Felegraphic address "PATENTOL'S" Phone No. 578 2532 Fax No. 011 576 6204. Patent Office Branch.
Wing 'C' (C-4, A),
IIIrd Floor, Rajaji Bhavan,
Besant Nagar, Chennai-600 090.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu & Pondicherry and the Union Territories of Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIC" Phone No. 490 1495 Fax No. 044 490 1492.

Patent Office (Head Office), "NIZAM PALACE", 2nd M.S.O. Building, 5th, 6th & 7th Floors, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS" Phone No. 247 4401 Fax No. 033 247 3851.

The Head Office of the Patent Office at Calcutta is the Receiving Office. Elected Office and Designated Office for International Applications under P.C.T.

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 and the Patents (Amendment) Act, 1999 or the Patents Rules, 1972 as amended by The Patents (Amendment) Rules, 1999 will be received only at the appropriate offices of the Patent Office.

Fees:—The fees may either be paid in cash or may be sent by Bank Draft or Cheques payable to the Controller of Patents drawn on a scheduled Bank at the place where the appropriate office is situated.

पेट ट कार्यालय

एकस्व तथा अभिकल्प

कलकत्ता, दिनांक 1 जनवरी 2000

पेटन्ट कार्यालय के कार्यालयों के पते एवं अंत्राधिकार

पेटांट कार्यालय का प्रधान कार्यालय कलकता में अवस्थित हैं तथा मुम्बई, दिल्ली एवं चैन्नई में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जीन के आधार पर निम्न रूप में प्राधिक हैं:—

पेटोट कार्यालय शाखा, टांडी इस्टोट, तीसरा तस, लोजर परेले (प.), मुम्बई-400 013

ग्जरात, महाराष्ट्र, मध्य प्रदेश तथा गीआ राज्य क्षेत्र एवं संघ शासित क्षेत्र, दमन तथा दीव एवं दादर और नगर हवेली ।

तार पता-''पेटाफिस'' फोर्न 482309'2 कंबस : 0224950622

पेटेंट कार्यालय शासा, एकक सं. 401 से 405, तीमरा तल नगरपालिका बाजार भवन, सरस्वती मार्ग, करोल बाग, नहीं दिल्ली-110 005

हिरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान, उत्तर प्रदेश तथा दिल्ली राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ ।

तार पता - ''पेटर्टोफिक''

फोन : 5782532 फोक्स : 011-5766204

APPLICATION FOR THE PATENT FILED AT THE HEAD OFFICE 234/4. ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700 020

The dated shown in the crecent bracked are the dated claimed under section 135, under Patent Act. 1970

26-10-1999

- 862/Cal/99. Uni-Charm Corporation, "Disposable body fluids absorbent article" (Convention No. 10-309925 on 30-10-1998 in Japan).
- 863/Cal/99. Initiating Explosives Systems India Limited, "Triggering device".
- 864/Cal/99. Johnson & Johnson Vision Products. Inc., "Coatings for biomedical devices" (Convention No 09/175165 on 20-10-98 in U S A)
- 865/Cal/99. W. Schlafhorst Ag & Co., "Process and device for covering a spun yarn package" (Convention No. P19854786.2 on 27-11-98 in Germany).
- 866/Cal/99. Trutzschler GmbH & Co., Kg., "Apparatus for measuring the thickness and/or ir in of a running sliver" (Convention No. 1963, 238.5 on 18-11-98 in Germany).

पेटीन्ट कार्यालय खाखा, विग सी (सी-4, ए), तीसरा तल, राजाजी भवन, बसन्त नगर,

चेलाइ⁵-600090 ।

आन्ध्रप्रदेश, कर्नाटक, करेल, तमिलनाड़, तथा पाण्डिचेरी राज्य क्षेत्र एवं संघ शासित क्षेत्र, लक्षद्कीय, मिनिकाय तथा एमिनिदिति दकीय ।

तार पता-''प्टेटोफिस्''

फोन: 4901495 फोन्स: 044-4901492

पेटॉट कार्यालय (प्रधान कार्यालय) निजाम पैलेस , दिक्तीय बहुत्तलीय कार्यालय भवन , 5 , 6 तथा 7यां तल , 234/4 , आचार्य जगदीश बोस मार्ग , कलकत्ता-700 020 .

भारत का अवशैष क्षेत्र ।

तार पता - "पेट टिस"

फोन : 247 4401 फैक्स : 033247 3851

पेटोट कार्यालय का कलकत्ता स्थिन प्रधान कार्यालय पेटोट सहयोग संधि के अधीन अन्तरराष्ट्रीय विदर्श के निष् रिसीविंग कार्यालय, इलेक्टोड कार्यालय व डोस्मिनेटोड कार्यालय है।

पेटांट अधिनियम, 1970 तथा पेटांट (संशोधन) भिनियम, 1999 अथवा पेटांट (संशोधन) निकाम, 1972 द्वार अपेरियत सभी आवेदन, सचनाएं. विवरण या उन्तर दस्तावंज ६. कोर्प फीर पेटांट कार्यालय के केंबल समुचित कार्यालय में ही शहर किये जायेंगे।

शब्क : श्ल्मों की अदायगी या तो नकद की जागगी अथवा जहां उपयक्त कार्यालय अवस्थित हैं उस स्थान के अन्मिक बैंक में नियंत्रक की भुगतान योग्य बैंक ड्राफ्ट अथवा चैक द्वारा की जा सकती हैं।

27-10-1999

867/Cal/99. Showa Corporation, "Chuck device" (Convention No. 10-319457 on 10-11-1998 in Japan).

868/Cal/99. Vaw Motor Gmbh, "Binding agent system based on water glass".

28-10-1999

869/Cal/99. General Electric Con any. "Single crystal conversion control" (Convention No. 09/200.562 on 27-11-98 in U S A).

29-10-1999

- 870 'Cal/99. Intevep, S. A., "Aluminosilicate Compositions, preparation and use" (Convention No. Nil on 22-10-1999 in United States of America).
- 871/Cal/99. Krupp Uhde Gmbh, "Rectifying column for the extractive distillation of close boiling or azeotropic boiling mixtures" (Convention No. 19849651.6-44 on 29-10-98 in Germany).

1-11-1999

872 'Cal/99. Lurgi Zimmer Aktiengesellschaft, "Injector for feeding additives in a polymer melt stream" (Convention No. 19851948.6 on 11-11-98 in Germany).

- 873/Cal/99. Deutsche Thomson-Brandt Gmbh, "Switchedmode power supply" (Convention No 19851789.0 on 10-11-98 in Germany).
- 874/Cal/99. Central Tasar Research & Training Institute, "A tent".
- 875/Cal/99. Chitta Ranjan Mukherjee, "Improved electrical generator and motor".

02-11-1999

- 876/Cal/99. Rajeev Agnihotri, "Rajeev's formula".
- 877/Cal/99. (1) Mishra, Jagdish Narain, (2) Mohammed Mustafa Siddiqui & (3) Harikishore, A., "Device to measure RMS angular deviations".
- 878/Cal/99. Engelhard Corporation, "A device which generates chlorine dioxide in the presence of water". (Convention No. 08/965911 on 7-11-97 in U S A).
- 879/Cal/99. Deutsche Thomson-Brandt Gmbh, "Apparatus for reading from and/or writing to optical recording media". (Convention No. 19852291.6 on 13-11-98 in Germany).
- 880/Cal/99. Harris Corporation, "An elastic buffer and a memory buffer therefore". (Divided out of No. 657/Cal/95; dated 09-6-95).

03-11-1999

881/Cal/99. Johnson & Johnson Vision Products, Tnc., "Missing lens detection system and method' (Convention Nos. 09/187,579 on 5-11-98 & Nil on 19-10-99 in U S A).

04-11-1999

- 882/Cal/99. Eaton Corporation, "Clutch with roller fork" (Convention No. 09/188,424 on 9-11-98 in USA).
- 883/Cal/99. Eaton Corporation, "Touch point identification for vehicle master clutch" (Convention No. 09/189,995 on 12-11-98 in U S A).
- 884/Cal/99. Eaton Corporation, "Vehicle launch automated master clutch control" (Convention No. 09/197,544 on 13-11-98 in U S A).

05-11-1999

- 885/Cal/99. Johnson & Johnson Inc., "Sanitary napkin with rear extension providing a liquid blocking function" (Convention No. 09/189,009 on 9-11-98 in U S A).
- 886/Cal/99. Texparts Gmbh, "Spindle bearing arrangement" (Convention No. 198 54 354.9 on 25-11-1998 in Germany).
- 887/Cal/99. New Transducers Limited, "Loudspeakers" (Convention Nos. 9824255.5 on 06-11-1998 & 9914410.7 on 22-06-1999 in United Kingdom).
- 888/Cal/99. New Transducers Limited, "Acoustic device" (Convention No. 9824256.3 on 06-11-1998 in United Kingdom).

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of a patent on any of the applications concerned, may, at any time within four months from the date of this issue or within such further period not exceeding one month if applied for on Form 4 prescribed under the Patent (Amendment) Rules, 1999 before the expiry of the said period of four months, give notice to the Controller of Patents at the appropriate office on the prescribed Form 7

of such opposition. The written statement of opposition should be filed in duplicate alongwith evidence, if any, with said notice or within sixty days of its date as prescribed in Rule 36 as amended by the Patents (Amendment) Rules, 1999.

The Classification given below in respect of each specification are according to Indian Classification and International Classification Systems.

Printed copies of the specification and drawings, if any, can be supplied by the Patent Office or its branch offices on payment of prescribed charges of Rs. 30/- each.

In the event of non-availability of printed specification, photocopies of the specification and drawings, if any, can be supplied by the Patent Office and its branch offices on payment of prescribed photocopy charges @ Rs. 10/- per page of such document plus Rs. 30/-.

स्वीकृत सम्पूर्ण विनिद्धा

एतद्द्वारा यह सूचना दी जाती है कि संबद्ध आवंदनों में से किसी पर पंटंट अनुदान के बिराध करने के इच्छुक व्यक्ति, इसके निर्गम की लिथि से चार ६4) महीने या कुर्ग्रिम एंसी अविधि को उक्त चार (4) महीने को अविधि की समाप्ति के पूज, पंटंट (सशी-धन) नियम, 1999 के तहत विहित प्ररूप 4 पर अगर आवंदित हो, एक महीने को अविध से अधिक न हो, के भीतर कभी भी निर्मम त्रक एकस्व को उपयुक्त कार्यालय में एसे विरोध को सूचना विहित प्ररूप 7 पर दे सकते हैं। विरोध संबंधी निवित वक्ताम दो प्रतियों में साक्ष्य के साथ, यदि कोई हो, उक्त सूचना के साम या पंटंट (सशीधन) नियम, 1999 द्वारा सशीधित नियम-36 के तहत यथाविहित उक्त सूचना के लिख से 60 दिन के भीतर का सहल कर दिए जाने चाहिए।

प्रत्येक विनिद्देश के संदर्भ में नीचे विये वर्गीकरण, धारतीय वर्गीकरण तथा अन्तर्राष्ट्रीय वर्गीकरण के अनुस्य हैं।

विनिद्यं तथा चित्र आरोख, यदि कोई हो, की अंकित प्रतियों की आपृति पेटीट कार्यालय या उसके खाखा कार्यालयों धे प्रथाचाहत 30 राष्ट्र प्रति की अदादगी पर को जा सकती है।

एसी परिस्थिति में जब विनिद्देश की अंकित प्रति उपजब्ध नहीं हो, विनिद्देश तथा चित्र आरख, यदि काई हः, की कांधे प्रतियों की आपूर्ति पेटेंट कार्यालय या उसके शाखा कार्यालयां से यथाविहित फोटोप्रति शुल्क उक्त दस्तावंज के 10 रुपए प्रति पृष्ठ धन 30 रुपए की अदायगी पर की जा सकती है।

Cl.: 148 H

183421

Int. Cl1: H 04 N 1/387

 $\begin{array}{lll} \mbox{Title} & : \mbox{``A SYSTEM FOR IMPLANTING AN IMAGE} \\ \mbox{INTO A VIDEO STREAM"}. \end{array}$

Applicant: SCITEX AMERICA CORPORATION, OF EIGHT OAK PARK DRIVE, BEDFORD, MA 001730, UNITED STATES OF AMERICA, A CORPORATION-INCORPORATED IN THE STATE OF MASSACHESSETTS.

Inventors: HAIM KREITMAN; DAN BAR-EL; YOEL AMIR; EHUD TIROSH.

Application No.: 214/CAL/95; filed on 28-02-95.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

08 Claims.

A system for implanting an image into a video stream of a selected one at a time of plurality of video frames

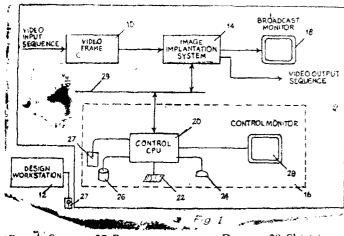
representing a stream of action occurring within a background space, the space having fixed planar surfaces and being scanned by at least one video camera, comprising:

a video frame grabber (10) for generating a model, independent of said plurality of video frames of a selected one of said surfaces, said model comprising a representation of geometrical features characterizing said surface:

an image implantation system (14) having means for utilizing said model to perspectively distort said image so as to provide it in generally the same perspective of said selected frame;

means for producing a background mask of said selected frame, said frame comprising at least a portion of said fixed surface, said background mask defines changeable regions of said selected frame and unchangeable regions thereof; and

means for blending said perspectively distorted image into said selected portion of said changeable region, thereby implanting said image into said selected frame.



(Compl. Specn. : 27 Pages

Drgns. : 28 Sheets)

Cl.: 6B1

Int. Cl.4: F 25 J 1/00

183422

"PROCESS AND APPARATUS FOR PRODUCING LIQUEFIED NATURAL GAS".

Applicant: PHILLIPS PETROLEUM COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF BARTLESVILLE, STATE OF OKLAHOMA, UNITED STATES OF AMERICA.

Inventor: WILLIAM R. LOW.

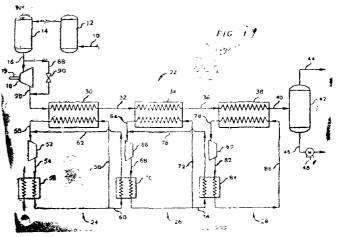
Application No. 340/CAL/95; filed on 27-03-95.

Appropriate office for opposition proceedings (Rule 4. Patent Rules, 1972), Patent Office, Calcutta.

12 Claims.

A process for producing liquefied natural gas which comprises feeding a pressurized natural gas stream to a refrigeration cycle comprising passing the gas through at least one cooling stage in indirect heat exchange with at least one refrigerant characterized in that said process comprises: feeding said pressurized natural gas stream to a dehydrator; feeding said dehydrated pressurized natural gas feed stream, at a pressure above 800 psig and at about ambient tempera-

ture, to an expander of the types such as herein described prior to refrigeration of said feed stream; conducting said feed stream through said expander to reduce the pressure of the stream to a pressure below about 650 psig and to cool the stream to a temperature below about 0°F, the differential of the temperature and the pressure of the feed stream permitting the recovery of useful work; extrating work (in a manner known per se) from the feed stream during the reduction of pressure by means of said expander; and feeding said feed stream from an outlet of said expander to the refrigeration cycle; said process producing a liquefied natural gas stream at about atmospheric pressure and at a temperature below about 258°F.



(Compl. Specn. . 18 Pages

Drgns: 01 Sheet)

Cl.: 206E

183423

Int. Cl. : G01S 17/66.

"A MOBILE TRACKING UNIT FOR A VEH

"A MOBILE TRACKING UNIT FOR A VEHICLE LOCATION SYSTEM".

Applicant: GENERAL ELECTRIC COMPANY, OF X 1 RIVER ROAD, SCHNECTADY X 12345, STATES OF NEW YORK, U.S.A.

Inventors :

- (1) Kenneth brakeley welles, I
- (2) jerome johnson tiemann,
- (3) Harold Woodruff tomlinson, Jr.,

Application No. 451/Cal/95 filed on 21st April, 1995.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972), Patent Office Calcutta.

13 Claims.

A mobile tracking unit for a vehicle location system, said tracking unit comprising:

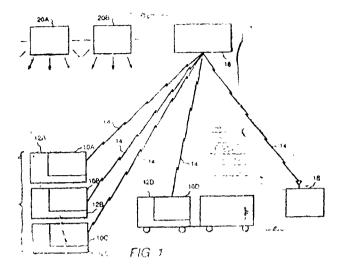
a navigation set for generating data substantially indicative of a repective vehicle position, said navigation set comprising a means providing communication with the control station and being adapted to be periodically energized at a selected activation rate FG while the vehicle is moving to generate vehicle position data;

a motion sensor for generating data indicative of vehicle

a tracking unit controller coupled to said motion sensor to receive the vehicle motion data, said tracking unit controller being adapted to control said navigation set based upon the vehicle motion data so that when the vehicle is substantially stalienary the activation rate FG can be respectively decreased by a predetermined factor, thereby reducing overall power consumption of said tracking unit, said tracking unit controller being further adapted to revert to activation rate FG when said motion sensor indicates renewed vehicle motion, thereby, avoiding any substantial loss of vehicle position data during renewed vehicle motion; and

a clock module doupled to said controller for enabling said controller to resume operation after a low activation or sleep mode.

Feb 1999 without effect on pay and allowances).



(Compi. Specn 20 pages.

Drgs. 3 sheets)

Cl.: 196B2

183424

Int. Cl.: F24F 13/08.

"A DEVICE FOR CLOSING THE OUTLET OPENING OF A FAN CASING".

Applicant: F F SEELEY NOMINEES PTY LTD. OF 1-11, ROTHESAY AVENUE, ST MARYS, SOUTH AUSTRALIA.

Inventor: DR A. K. WALLACE,

Application No. 464/Cal/95 filed 24 April, 1995.

(Convention No. PM 5302 on 27-4-94 in Australia).

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Calcutta.

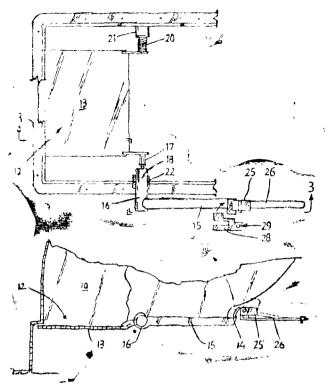
5 Claims

A device for closing the outlet opening of a fan casing with a motor driven air flow impeller within said casing, said device comprising:

a flap (13) positionable over said outlet opening to substantially close said opening when it is in its closed position, or allowing a free flow of air from said opening when in its open position;

hinge means (16,17) hinging said flap to the casing for movement between a closed position and an open position;

a counterweight arm (15) associated with said flap; a latch (25) carried by said casing and operatively associated with a swinging end of said counterweight arm to retain said counterweight arm from movement in an opening direction of the flap, releasably retaining said flap in its closed position and; a resilient; means coupling said latch to said casing, and which is deformable upon static pressure being imparted to said flap in said opening direction by operation of said motor drilven air flow impeller to release latch engagement with said counterweight arm.



(Compl. Specn. 6 Pgs.

Drgs. 2 sheets.)

Cl. 128 G.

183425

Int. Cl.: A 61 B 6/03, 6/10.

A COMPUTERIZED TOMOGRAPHY SYSTEM WITH HIGH DATA RATE COMMUNICATION.

Applicant: GENERAL ELECTRIC COMPANY, OF 1, RIVER ROAD, SCHNECTADY 12345, STATE OF NEW YORK, U.S.A.

Inventors: DANIEL DAVID HARRISON & RICHARD LOUIS FREY.

Application No. 482/Cal/95 filed on 28th April, 1995.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

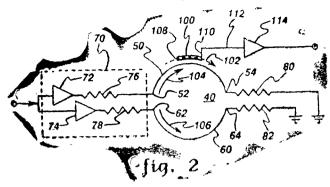
19 Claims

A computerized tomography system having a stationary frame and a generally annular rotating frame, comprising:

a tranmission line attached to said rotating frame and positioned substantially around said annular rotating frame, said transmission line comprising a single signal conductor and individual segments each having a respective first end and a respective second end, each of said individual segments having respective electrical lengths substantially similar to one another, said lengths chosen so that a modulated signal simultaneously applied at each respective first end has a predetermined time-delay upon arrival at each respective second end, said individual segments being arranged so that the respective first ends of any two consecutive segments are substantially adjacent to one another and respective second ends of any two consecutive segments are substantially adjacent to one another to avoid time-delay discontinuity in the modulated signal propagating therethrough;

a coupler with a cross section similar to the cross section of said transmission line, and attached to said stationary frame and being sufficiently near said transmission line for establishing radio coupling therebetween so as to receive the modulated signal being applied to the respective individual segment.

The gap between any two consecutive segments of said transmission line being such as to allow a coupling between said transmission line and said coupler at all rotation angles.



(Compl. Specn. 22 pages;

Drgns. 4 sheets)

Cl.: 6 A2.

183426

Int. Cl. : F 04 B 49/24.

A VALVE LIFTER FOR COMPRESSOR VALVES.

Applicant : HOERBIGER VENTILWERKE AKTIENGE-SELLSCHAFT, OF A-110 VIENNA, BRAUNHUBER-GASSE 23, AUSTRIA.

Inventors:

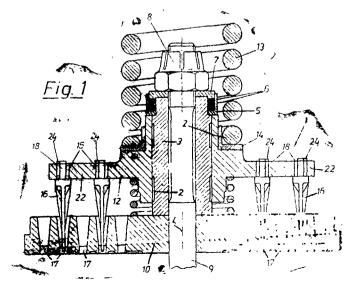
- 1. PATER STEINRUCK,
- 2. PETER ROCHOWANSKY AND
- 3. KARL REIN.

Application No. 513/Cal/1995 filed on 8th May, 1995.

Appropriate Office for Opposition Proceedings (Rule 4. Patents Rules, 1972), Patent Office, Calcutta.

12 Claims

A valve lifter for compressor valves, comprising a carrier (12) and a plurality of fingers (16), each of said fingers being provided with attachment means attaching said fingers to said carrier, characterised in that said attachment means comprise a retaining element (18) provided at one end of each finger facing said carrier (12) and co-operating with said carrier (12) to provide a positive fit therein, said retaining element comprising at least one positioning element (19, 20) that fixes the position of said retaining element relative to the carrier, and at least one fixing element (21) that snaps into position on the carrier (12).



Drgns, 3 sheets)

Cl. '107 C.

183427

Int. Cl.: F 01 B 25/00.

AN IMPROVED INTERNAL-COMBUSTION ENGINE.

Applicant: YAMAHA HATSUDOKI KABUSHIKI KAISHA, OF 2500 SHINGAI, IWATA-SHI, SHIZUOKA-KEN 438, JAPAN.

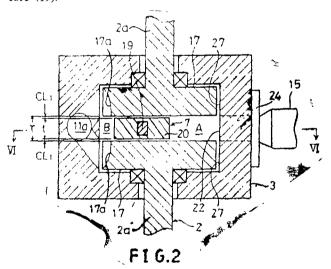
Inventor: KEMMU MAKINO.

Application No. 708/Cal/1995 filed on 20th June, 1995.

Appropriate Office for Oppositionn Proceedings (Rule 4. Patents Rules, 1972), Patent Office, Calcutta.

24 Claims

An improved internal-combustion engine comprising a cylinder block (6) having a crankcase (3) for rotatably supporting a crankshaft (2) linked to at least one piston (4) by means of at least one connecting rod (7), said connecting rod (7) being in sliding contact against an inner circumferentiali wall of the crankcase (3) such that, except for crank angles in the vicinity of the upper dead centre poistion, the connecting rod divides an interior of the crankcase (3) into two air chambers (A, B), wherein one of the air chambers is connected to an air introduction unit while the other air chamber connects to the combustion chamber (9) through an intake passage, wherein the air chamber that connects to the combustion chamber (9) serves as a compression chamber, said connecting rod (7) forming a compressor element by changing an effective internal volume of the crankcase (3) wherein said councing rod (7) comprises an inner core (19) for connecting a crank pin (18) of the crankshaft and a piston pin (21) of the piston, the core being made of a high strength metal material, such as herein described, and a coverage (20) for sliding contact with said inner circumferential wall, the coverage being moded on said inner core (19).



(Compl. Specn. 41 pages;

Drgns. 9 sheets)

Cl.: 89, 102 D.

183428

Int. $Cl.^4$: G 01 L 9/00, 13/00.

A PRESSURE SENSNING APPARATUS FOR TRANSMITTING OPTICAL SIGNALS CORRESPONDING TO PRESSURE AND DIFFERENTIAL PRESSURE.

Applicant: INDIAN INSTITUTE OF TECHNOLOGY, OF KHARAGPUR-721 302, WEST GENGAL, INDIA.

Inventors:

- 1. M. K. GHOSH
- 2. A. MISHRA

Application No. 799/Cal/1995 filed on 14th July, 1995 (Complete after provisional left on 2nd September, 1996).

(Compl. Specn. 15 pages;

Appropriate Office for Oppositionn Proceedings (Rule 1, Patents Rules, 1972), Patent Office, Calcutta.

5 Claims

A pressure sensing apparatus for transmitting optical signals corresponding to pressure and differential pressure, comprising at least one pressure chamber (1), said chamber comprising:

- an inlet connected to a pressure source;
- a diaphragm (2) disposed within said chamber (1);
- a movable deformer (3) with a deformed or corrugated outward face connected to said diaphragm
 (2):
- a stationary deformer (5) with at least one side having a deformed or corrugated surface;
- at least one light carrying optical fibre (6) disposed between said moving deformer (3) and said stationary deformer (5), one end of said optical fibre being.

connected to a light source with its other end to a photo detector for conversion of optical signal into electric current; said movable deformer (3) adapted for receiving actuation from said diaphragm (2) in a direction towards or away from said stationary deformed (5) thereby producing microbends or small bends or indulations on the outer surface of the core of said optical fibre (6) causing light signal in the core to leak from the optical fibre (6) or attenuate, said photo detector receiving optical signal generated by attenuation of light in the fibre caused by said microbends in the fibre and converting it into electric current corresponding to the pressure applied in said chamber.

(Compl. Specn. 8 pages;

Drgns. 2 sheets)

Provl. Specn, 06 pages.

Cl.: 40 F.

183429

Int. Cl.: C 01 B 31/18.

A PROCESS FOR PRODUCING A SYNTHESIS GASMIXTURE COMPRISING CARBON MONOXIDE AND HYDROGEN.

Applicant: TEXACO DEVELOPMENT CORPORA-TION, OF 2000 WESTCHESTER AVENUE, WHITE PLAINS, NEW YORK, 10650, U.S.A.

Inventors:

- 1. ROBERT MURRAY SUGGITT
- 2. RAYMOND FREDERICK WILSON
- 3. WING-CHIU FRANCIS FONG.

Application No. 719/Cal/95 filed on 23rd June, 1995.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972). Patent Office, Calcutta.

16 Claims

A process for producing a synthesis gas mixture comprising carbon monoxide and hydrogen by continuously and immediately controlling the hydrocarbon heat content of a partial oxidation unit feed-gas stream characterised in that said process comprises the steps of;

- (a) determining the hydrocarbon heat content, H₀, of a raw feed-gas stream;
- (b) establishing a signal which represent the hydrocarbon beat content of the raw feed-gas stream.,

 Ho:
- (c) transmitting the signal to an evaluating means which compares the hydrocarban heat content of

the raw feed-gas stream, H_0 , to a partial exidation unit feed-gas design hydrocarbon heat content, H_0 , and which determines:

 (i) a flow rate for the raw feed-gas stream, F_o, according to the equation

$$F = F_d Hd H^0$$

if H is greater that H_{d} , or therewise according to the equation;

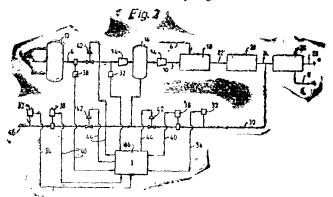
$$F = F_d$$
; and

(II) a flow rate for the cycle gas stream, F_r, according to the equation:

$$F_r = F_d - F$$
;

where F_d represents the design flow rate of a partial oxidation unit feed-gas stream;

- (d) adjusting flow rate of the raw feed-gas stream in accordance with the value F₀ calculated in step c):
- (e) adjusting the flow of the recycle gas stream in accordance with the value F_r calculated in step c);
 - (f) combining the raw feed-gas stream and the recycle gas stream, if any, to form the partial oxidation unit feed-gas stream; and
- (g) partially oxidizing the partial oxidation unit feedgas in a known manner such as herein described to produce said synthesis gas mixture comprising carbon monoxide and hydrogen.



(Compl. Specn. 33 pages;

Drgns. 2 sheets)

Cl. 80 H

183430

Int. Cl.: B 01 D 35/26

FILTERING APPARATUS FOR FILTERING LIQUIDS HAVING PARTICLES IN SUSPENSION.

Applicant: ONA ELECTRO-EROSION, S.A., OF EGUZ-KITZA, S/N-48200 DURANGO (VIZCAYA), SPAIN.

Inventor: FERNANDO MARTINEZ MUGICA.

Application No. 828/Cal/1995 filed on 20th July, 1995.

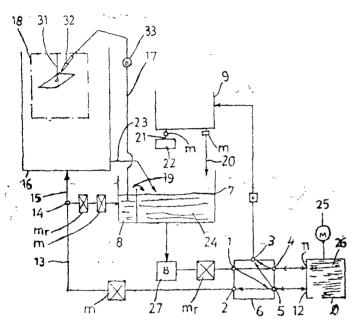
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972). Patent Office Calcutta.

8 Claims

A filtering apparatus for filtering liquids having particles in suspension comprising :

- (a) a first receptacle (7) for liquid (24) to be filtered free of particles;
- (b) a second receptacle (8) for filtered liquid which is free of particles:

- (c) a decanting receptacle (9);
- (d) an operating receptacle (16) at an operating station (18) connected to said first receptacle (7);
 - (e) a filter (10); and
 - (f) a valve unit (6) fluidly connecting said first receptacle, said second receptacle, and said decanting receptacle with each other and with said filter, said valve unit selectively connecting the receptacles in a filtering phase, a filter-washing phase and a rinsing phase to
 - (i) cause the liquid to flow from the first receptacle (7) through the filter (10) in a filtering direction to the second receptacle (8) during the filtering phase;
 - (ii) cause the liquid to flow from the decanting receptacle (9) through the filter (10) in a direction counter to the filtering direction to the first receptacle (7) during the filter-washing phase; and
 - (iii) cause the liquid to flow from the first receptacle (7) through the filter (10) in a filtering direction to the decanting receptacle (9) during the rinsing phase.



Compl. Specn. 10 Pages;

Drgns. 2 Sheets.

Ind. Cl.: 145D

183431

Ind, Cl.4: D 21 D 3/00

A PROCESS FOR THE PREPARATION OF SYNTHE-TIC PAPER.

Applicant: COSMO FILMS LIMITED, AN INDIAN COMPANY OF 30. COMMUNITY CENTRE, SAKET, NEW DELHI-110017.

Inventor: GHANSHYAM D'ASS AGRAWAL (INDIA).

Kind of Application: Provisional/complete.

Application for Patent No. 608/Del/91 filed on 8-7-91.

Complete left after Provisional specification filed on 29-9-

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-

5 Claims

A process for the preparation of synthetic paper which comprises preparing a core layer comprising 40%-100% by weight polypropylene and 0%-40% by weight filler, preparing a skin layer comprising 30% to 50% by weight polypropylene and 50%-70% by weight filler selected from calcium carbonate, silica and tale, coextruding said layers together and the subjecting said coextruded layers to the step of biaxial orientation to form said synthetic paper.

Agent :- I., S. Davar & Co.

Provl. Specn, 5 Pages.

Compl. Specn. 10 Pages;

Drgn. Nil Sheet

Ind, Cl.: 155 F

183432

Int, Cl.4: B 05 C 1/00

PROCESS AND APPARATUS FOR PRODUCTION OF A FLAME RETARDANT CELLULOSIC FABRIC.

Applicant: ALBRIGHT & WILSON U. K. LTD., FOR-MERLY ALBRIGHT & WILSON LIMITED, A BRITISH COMPANY, OF 210-222 HAGLEY ROAD WEST, OLD-BURY, WARLEY WEST MIDLANDS, ENGLAND.

Inventors: ROBERT COLE, ENGLAND.

Kind of Application: Complete-Convention.

Application for Patent No. 710/Del/91 filed on 05-08-91,

Convention date 10-8-90 (9017537.3)/(U.K).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972). Patent Office Branch. New Delhi-110005.

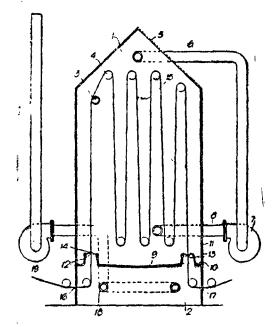
10 Claims

Process for the production of a flame-retardant cellulosic fabric, said process comprising the following stages:

- (i) impregnating the fabric with an aqueous solution of a tetrakis (hydroxyorgano) phosphonium (THP) composition, said aqueous solution containing from 5% to 50% (especially 15% to 25%) by weight of THP+ion and at least partly drying the impregnated fabric:
- (ii) treating the impregnated fabric with a gas including ammonia in an apparatus having a chamber, the initial concentration of ammonia in said cas being from 70% to 90% and the ratio of ammonia in the gas to the THP composition being at least 1.2 to 1;
- (iii) removing the treated fabric from the apportus, together with at least some of the gas including ammonia characterized in that said gas is recycled back into the apparatus during the course of the process and in that treating of the impregnated fabric with gas includes passing said impregnated fabric through said chamber of gas at a speed of from 30 to

100m/min especially 50 to 60m/min. to obtain said flame returdant celluloric fabric.

Agent: Remfry & Sagar.



Compl. Specn. 20 Pages;

Drgns. Sheet 1.

Ind. Cl.: 136 B

183433

Int. Cl.4: C 01 N 33/44

A PROCESS FOR CONTINUOUS PRODUCTION OF SUPERPLASTIC ULTRA-HIGH CARBON (UHC) STEEL SHEET.

Applicant: COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA.

Inventors:

JISHUTOSH BHATTACHARYA, INDIAN BIRENDRA NATH GHOSH, INDIAN SUJAN KRISHNA CHOWDHURY, INDIAN SANTIPADA CHAKRABORTY, INDIAN PARIMAL KUMAR DE, INDIAN OMKARNATH MOHANTY, INDIAN.

Kind of Application: Complete.

Application for Patent No. 752/Del/91 filed on 14-8-91.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-

3 Claims

A process for continuous production of superplastic ultra high carbon (UHC) steel sheet, which comprises: (i) melting mild sheet, ferro-chrome, ferro-silicon, ferro-manganese and graphite in an induction furnace to get a steel slab in the ocmposition range of:—

 Carbon
 : 0.80 to 2.00 wt%

 Chromaium
 : 1.00 to 2.00 wt%

 Silicon
 : 0.50 to 3.50 wt%

 Manganese
 : 0.50 to 1.00 wt%

The balance is i on and other premissible impurities such as sulphur and pho phorous. (ii) hot rolling of the steel slab at a temperature range of 1050°C to 1100°C and finishing at below A1 temperature by multiple passes, either to a chinner

slab to a thickness in the range of 5 mm to 15 mm, or to a sheet to a thickness below 5 mm: (iii) re-heating the resultant sheet or slab, subsequent by passing through a reheating furnace, maintained at a temperature rang of 900°C to 1300°C, keeping the residence time in the furnace in the range of 5 seconds to 300 seconds; (iv) cooling and subsequently coiling thin gauge sheet below 5 mm characterised in that the cooling is done thickness at a temperature range of 500°C to 700°C or force cooling of the slabs 5 mm to 15 mm thickness after-re-heating. in air/compressed air/water spraying and the life to a level just below A1 temperature, followed by subsequent deformation of 20% to 50% by rolling in the temperature range 700°C to 800°C and finally coiling at a temperature range 500°C to 700°C.

Compl. Specn. 9 Pages;

Drgns. Nil Sheet.

Ind. Cl.: "32 B

183414

Int. Cl. : C 07 C 1 '00

HYDROCARBON OIL COMPOSITIONS,

Applicant: SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B V. A NETHERLANDS COMPANY OF CAREL VAN BY LANDTLAAN 30, 2596 HR. THE HAGUE, THE NETHERLANDS.

Inventors:

MARINUS JOHANNES REYNHOUT, NETHEB-LANDS

HENRICUS PAULUS MARIA TOMASSEN, NETHER-LANDS AND

DUCO BODT, NETHERLANDS.

Kind of Application: Complete.

Application for Patent No. 813/Del/1991 filed on 3rd Sep. 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patent's Rules, 1972), Patent Office Branch, New Delhi-

9 Claims

Hydrocarbon oil compositions, characterized in that they contain a paraffinic hydrocarbon oil and as additives of 0.1 to 10000 mg of a mixture of:

- (a) one or more linear polymers of carbon monoxide with one or more olefins consisting at least in part of α olefins having at least 10 carbon atoms per molecule (C₁₀+ α- olefins) in which polymers on the one hand the units originating from carbon monoxide and on the other hand the units originating from the olefins occur in a substantially alternating way, and moreover one or more polymers selected from:
- (b) polymers of one or more olefinically unsaturated compounds consisting at least in part of alkyl acrylates or alkyl methacrylates having at least eight carbon atoms in the alkyl group (C₈+ alkyl esters), and
- (c) polymers of ethene with one or more vinyl esters of saturated aliphatic monocarboxylic acids.

Agent: Remfry & Sagar.

Compl. Specn. 16 Pages;

Drgns. Sheet Nil.

Ind. Cl.: 85 J.

183435

Int. Cl.4: F 23 G 5/00.

PORTABLE CORROSION PESISTANT DOUBLE WALLED GARBAGE INCINERATORS.

Applicant: SUNANDAN KUMAR OF N-131, PANCH-SHILA PARK, NEW DELHI-110017, INDIA, AN INDIAN NATIONAL.

2-397 GI/99

Inventor: SUNANDAN KUMAR (INDIA).

Application for Patent No. 968/Del/91 filed on 7-10-91. Kind of Application: Provisional/Complete.

Complete left after Provisional Specification filed on

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 19/2), Patent Omce Branch, New Delhi-110 005.

8 Claims

An improved postable, corresion resistant, double walled, circular snaped garbage incinerator made of stainless steel, comprising;

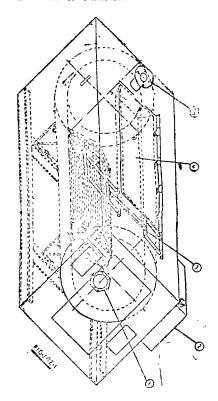
a chamber with a service door provided within a side wall of the said chamber having at its one end a suding iray for removing ash/non-combustibles material and a blower cum burner for heating provided on the other end of the said chamber;

a hollow shaped channel for loading the garbage from the top of the said incineration;

a hollow chimney connected to the said chamber for excavating the fumes or gases formed during combustion, having its open end enveloped by a secondary hollow cylindrical chimney, having a diameter greater than the inner chimney with both the eads open;

wherein an inverted Vee grill mounted/positioned on flat surface grate provided at the bottom end of the said incinerator enusing the dispersal of the flame such that the garbage is burnt from the bottom as well from the top to avoid formation of the cake.

Agent: Lall Lahiri & Salhotra.



(Compl. Specn. 9 pages;

Drwgn 1 sheet)

Ind. Cl.: 189.

183436

Int. Cl.4: A 61 F 13/00.

RESILIENT THREE DIMENSIONAL WEB HAVING FIRST AND SECOND SURFACES EXHIBITING RE-DUCED PLANAR AREA.

Applicant: THE PROCTER & GAMBLE COMPANY, A CORPURATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA, OF ONE PROCTER & GAMBLE PLAZA CINCINNATI, OHIO 45202, UNITED STATES OF AMERICA.

Inventor(s):

- 1. WILLIAM HARRY GOODMAN, JR.--U.S.A.
- 2. DONALD LEROY GERTH—U.S.A.

Kind of Application: Complete.

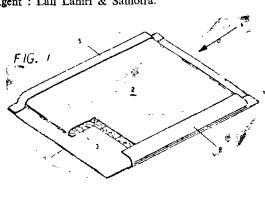
Application for Patent 1.0. 01/Del/93 filed on 1st January,

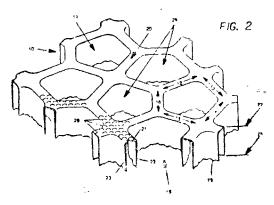
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

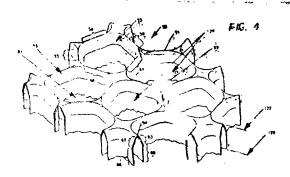
6 Claims

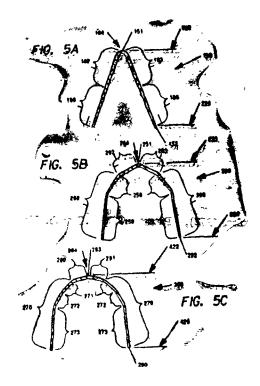
A resilient three dimensional web having first and second surface exhibiting reduce, planar area in its said first surface and a fiber like appearance and tactile impression, comprising a fluid impervious plastic material, said first surface prising a multiplicity of experitures therein, each of said apertures being defined by a multiplicity of intersecting primary fiber like elements interconnected to one another in the plane of the first said ce, each of the said primary fiber like elements exhibiting a substantially uniform generally upwardly concave shaped cross section along its length, said cross section having at last one paid of convergent substantially linear portions which intersect one another to form a vertex in the plane of said surface comprising a side wall portion joined to the free ends of each of said primary linear portions, said sidewall portions extending generally in the direction of said second surface of said web containing a multiplicity of apertures therein, said intersecting primary substantially linear portions and said intersecting sidewall portions being interconnected to one another, respectively, intermediate said first and second surfaces of the said web, said interconnected sidewall portions terminating substantially concurrently with one another in the plane of the said second surface.

Agent: Lall Lahiri & Salhotra.









(Compl. Specn. 27 pages;

Drwgn 11 sheets)

Ind. CL: 60x2 (b) & 55 E 2+4.

185457

Int. Cl.4: A 61 K 31/00.

A PRCESS FOR THE PREPARATION OF A PHARMA-CEUTICAL FORMULATION FOR PARENTERAL OR ORAL USE.

Applicant: ASTRA AKTIEBOLAG, A SWEDISH COMPANY, OF S-151 85 SODERTALJI, SWEDEN.

Inventor: STEFAN LUNDQUIST (SWEDEN).

Line of Application : Complete.

Application for Patent No. 1186/Del/94 filed on 22-9-94.

Appendiate Office for Opposition Proceedings Petents Rules, 1972), Patent Office Branch, 1 110 005.

11 Claims

A process for preparation of a pharmaceutical formula-tion for parenteral or oral use for preventing and/or treating neurodegeneration or having an anti-convulsant or codetivehypnotic effect in an oil in water emulsion comprising of:

> (i) an emulsion—stabilizing surface active 5-12-chlorenthyl)-4-methyl thaizole base drug and analogues

- thereof such as herein described in an amount from 0.1 to 5.0g per 100 ml of the final formulation;
- (ii) optionally a pharmacologically inert oil in an amount from 0.5 to 40g per 100 mi of the final formulation;
- (iii) optionally a surfactant used in an amount from 0.1 to 20g per 100 ml of the final formulation;
- (iv) water or a buffer; and
- (v) an agent giving isotonicity to the final formulation. Characterized by
 - adding the emulsion-stabilizing surface active drug and an optional conventional surfactant to water which is optionally mixed with oil at room tempera-
- allowing the emulsion stabilizing surface active drug or the emulsions stabilizing surface active drug together with the conventional surfactant to equilibrate at the interface;
- adding an agent giving isotonicity to the final for-mulation, and
- homogenizing by high pressure technique wherehy a stable amulaion is obtained which has a droppe size distribution where the main fraction is below

Agent : Refry & Sagar.

(Compl. Specn. 26 pages;

Drwgn. 3 sheets)

Lod. CL: 55 E-4.

183438

Int. Cl.4: A 61 K-31/19.

A PROCESS FOR PREPARING A CRYSTALLINE IN-CLUSION COMPLEX.

Applicant: FARMARC NEDERLAND B. V., OF CITCO TRUST INTERNATIONAL MANAGEMENT (T. I. M.) B. V., WORLD TRADE CENTRE, TOWER B. 17TH FLOOR, STRAWINSKYLAAN 1725, 1007 JE AMSTERDAM, THE NETHERLANDS.

Inventor(s):

- 1. MARK DAVID BOLDEY—SOUTH AFRICA
- 2. MINO RODOLFO CAIRA—SOUTH AFRICA
- 3. LUETA ANN GLINTENKAMP—SOUTH AFRICA
- 4. VIVIENNE JEAN GRIFFITH-SOUTH AFRICA
- 5. LUIGI RENZO NASSIMBNI—SOUTH AFRICA
- 6. DOUGLAS GEORGE MURRAY NICHOLSON-
- SOUTH AFRICA LAWRENCE JOHN PENKLER—SOUTH AFRICA OUDT-
- MICHAEL COENRAAD BOSCH VAN

Kind of Application : Complete.

Application for Patent No. 1277/Del/94 filed on 1964 Oct., 1994.

Appropriate Office for Opposition Proceedings Patents Rules, 1972), Patent Office Branch, N 170 005.

9 Claims

A process for preparing a crystalline inclusion complex of the kind such as herein before described of a pharmacentically acceptable salt of diclofenac and an unsubstituted β —cyclodextrin, which has a molar ratio of diclofenac salt to the substituted β —cyclodextrin of 1:1 and which has a finder maio of white, to dislotting sait and to the unambitated for exclosion of 1; 1:5 to 1:1:11, which promes, includes the steps of,

(a) mixing the diclofenac salt and the B-cyclodextrin;

- (b) adding a suitable amount of water to the mixture of a step (a) with vigorous mixing to obtain a paste or a slurry;
- (c) continuing the mixing with further addition of water if necessary to maintain the paste or the slurry consistency, for a suitable period of time to form the inclusion complex; and
 - (d) drying the product of step (C), to obtain said inclusion complex with aforesaid molar ratio.

Agent : Remfry & Sagar.

(Compl. Specn. 26 pages;

Drwgn. 7 sheets)

Ind. Cl.: 189

183439

Int. Cl.4: A 61K, 7/16

A PROCESS FOR THE PREPARATION OF A COM-PRESSED ORAL FORMULATION OF AN ACTIVE PRINCIPLE OF THE QUINOLONE CLASS.

Applicant: RHONE-POULENC RORER S. A., A FRENCH BODY CORPORATE OF 20 AVENUE RAY-MOND ARON, 92160 ANTONY, FRANCE.

Inventors:

GABRIEL GOUSSET-FRANCE AND PHILIPPE RIVIERE-FRANCE.

Kind of Application: Complete

Application for Patent No. 1302/Del/1994 filed on 18-10-1994.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-

5 Claime

A process for the preparation of a compressed oral formulation of an active principle of the quinolone class having the following formula

in which

 R_1 is an alkyl radical containing 1 to 4 carbon atoms or a fluoroethyl, cyclopropyl, methylar no or diffuorophenyl radical, X represents a nitrogen atom or a group— CR_7 -in which R_7 is a hydrogen, chlorine or fluorine atom or alternatively R_7 forms, with the radical R_1 and the atoms to which they are attached, a 6-membered heterocycle which is a bestituted with a methyl radical and which optionally contains an oxygen or sulphur atom, R_2 is a hydrogen atom or may represent an amino radical if R_7 is a fluorine atom, and R_8 is a hydrogen atom, a 2, 8 diazabicyclo (4.3.0) non-8-yl radical or a radical of formula



in which R₁, R₂ and R₃ are identical or different and represent hydrogen atoms or methyl radicals, or a pharmaceutically acceptable salt thereof, which process comprises compacting in a way such as hereinbefore described a mixture containing the said active principle and excipients of the kind as herein before described, grinding the compacted mixture on a grid to a particle size of from 50 um to 1mm, and then compressing the ground mixture.

Agent : Remfry & Sagar.

(Compl. Specn. 14 Pages;

Drgna 2 Sheets)

Ind. Cl. : 32 B

183449

Int. Cl.4: C 07 C, 175/00

AN IMPROVED PROCESS FOR THE PREPARATION OF 9 (2-HYDROXYETHYL) -7, 11-DIOXASPIRO (5, 5) UNDECANE.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA (AN INDIAN REGISTERED BODY, INCORPORATED UNDER REGISTRATION OF SOCIETIES ACT, ACT XXI OF 1860).

Inventors:

MALLADI PARDHASARADHI, INDIA CHEMBUMKULAM KAMALAKSHYAMMASNEHA-LATHA NAIR, INDIA ARSID SATYANARAYANA, INDIA.

Application for Patent No. 1646/Del/94 on 21st December 1994.

Appropriate Company of Patent Africe Branch, New Delhi-110005.

6 Claims

An improved process for the preparation of 9-(2-Hydroxyethyl) 1-7, 11-Dioxaspiro (5, 5) Undecane of the formula (VI)

which is useful in the synthesis of antiviral acyclonucleosides used in the treatment of herpes virus and HIV-1 infections, (a) Reacting cis-bus-2-ene-1, 4-diol with cyclohexanone in a non-polar solvent in the presence of a heterogeneous sulptonated nitro coal acid (SNCA) catalyst to obtain 7, 12-dioxapriro (5, 6) dodec-9-ene of the formula (III).

(b) Reacting, 7, 12-dioxaspiro (5, 6) dodec-9-ene of the formula (III) with mixture of Co and 14 (syngas) under a pressyre in the range of 80 to 130 bar, at a temperature in the range of 80 to 120°C for a period in the range of 4 to 8 hrs. in the presence of RhH (Co) (TPP)₃ catalyst in a non-polar solvent to yield 9-formyl-1, 12-dioxaspiro (5, 6) dodecane of the formula (IV).

(c) Reducing 9-formyl-7, 12-dioxaspiro (5, 6) dodecane of the formula (IV) with reducing agent in the presence of an alcoholic selvent at a temperature in the range of 0 to 20° C for a period in the range of 1 to 6 hrs to produce 9-hydroxymethyl-7, 12-dioxaspiro (5, 6) dodecane of the formula (V)

(d) Rearranging 9-hydroxymethyl-7, 12-dioxaspiro (5, 6) dodecane of the formula (V) in the presence of an acidic catalyst and an organic solvent at a temperature in the range 0 to 30°C for a period ranging from 3 to 6 hrs to yield 9-(2-hydroxyethyl) -7, 11-dioxaspiro (5, 5) undecane of the formula (VI).

(Compl. Specn. 9 Pages;

Drgns. 1 Sheet)

RENEWAL FEES PAID

RENEWAL FEES PAID

173464 175470 181833 181907 180933 177167 171892 180984 182014 181681 167300 180982 167969 181620 181403 180946 181405 181724 182155 178060 176924 176925 181822 179119 179250 179281 179282 178733 181456 181725 182156 181722 181825 166781 166910 168719 165628 166050 167963 168787 171760 176896 179114 179115 179116 181831 182118 176378 18166974 171895 181736 180475 182160 182113 182120 180983 181682 179409 181823 181908 182015 182153 174397 175467 176104 176375 176111 177825 182116 181472 181475 181739 182243 182241 182242 181732 177976 178290 178329 166907 166908 180987 176895 168788 179804 182018 181782 181783 175405 180953 173176 173737 181789 182245 181215 172845 176117 181740 180031 180045 173400 180032 180033 180046 173183 174513 180047 178603 181531 170886 174112 170974 168979 169927 170867 176298 175863 174369 166556 164735 174800 177362 179103 182220 182211 182149 182192 182208 182103 182663 178882 182415 182380 182134 166702 173247 173425 176360 177215 178307 179351 180882 181664 181665 182144 182198 177342 177492 174662 177595 179559174663 177205 180615 181764 179818 179999 177666 178893 166461 164349 180485 182264 178889 180717 182235 169954 170236 170844 171972 173788 174444 175778 176182 176493 170446 181741 166714 171443 167699 170926 170174 174193 181741 166714 171443 167699 170926 170174 174193

PATENT SEALED ON 03-12-1999

174241 177990 181684 182334 182427*D 182487*F 182488*F 174241 177990 181684 182334 182427*D 182437*F 182439*F 182490*F 182526* 182536 182551 182552* 182553* 182554*D 182555*D 182556*D 182557*D 182561* 182562 182563 182564* 182565* 182566 182568* 182569* 182670*F 182572*D 182573*D 182574*D 182573*D 182574*D 182573*D 182573*F 182580*F 182670*F 182572*D 182576*D 182577*D 182580*F 182578*D 182579*F 182582*D 182583* 182584*D 182587*D 182588*D 182589*D 182590*D 182630 182630 182630

CAL-18, DEL-05, MUM-06, CHEN-20.

- Patent shall be deemed to be endorsed with words LICENCE OF RIGHT under Section 87 of the Patents Act, 1970 from the date of expiration of three years from the date of sealing.
- D Drug Patents.
- F Food Patents.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration expect as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of registration included in the entries.

- Class 3. Nos. 175510 & 175511, M/s. Hangs Plastics, 4/ 104, bazar Gali, Vishwas Nagar, Shahdara, Delhi, 110032, India, an Indian proprietorship firm, "HANGER", 13th January 1998.
- Class 10. Nos. 175523 to 175536, API Polymers (India) Ltd., J-17, Udyog Nagar, New Delhi-110011, India, "SHOE", 14th January 1998.
- Class 1. No. 175545 to 175547, Titan Industries Ltd., an Indian Company whose address is Golden Enclave, Tower A, Airport Road, Bangalore-560017, Karnataka, India, "TIME PIECE", 16th January 1998.
- Class 1, No. 175548 Titan Industries Ltd., an Indian Company whose address is Golden Enclave, Tower A, Airport Road, Bangalore-560017, Karnataka, India, "CLOCK" 16th January 1998.
- Class 3. Nos. 175549 & 175550, Suraj Ratan (HUF), an Indian firm whose karta is Suraj Ratan Mundhra an Indian of 36 Jamunala Baiaj Street, Calcutta-700007, West Bengal, India, "JUG" 16th January 1998.
- Class 1. Nos. 175569 to 175571, Power Tool Holders incorporated a Delaware Corporation of 501, Silverside Road, Suite 105, Wilmington, Delaware-19809, U.S.A., "CHUCK", 19th January 1998.
- Class 10 Nos. 175572 to 175577, Liberty Enterprises, Liberty House Extension, Rly, Road, Karnal-132001. Haryana India, an Indian partnership firm, "SOLE", 20th January 1998.
- Class 10. Nos. 175578, Liberty Enterprises, Liberty House Extension, Rly. Road, Karnal-132001, Haryana, India, an Indian partnership firm, "V. SHAPE HAWAI", 20th January 1998.
- Class 10. No. 175579, Liberty Enterprises, Liberty House Extension, Rly. Road, Karnal-132001, Haryana, India, an Indian partnership firm, "CHAPPAL", 20th January 1998.
- Class 3. Nos. 175582 & 175583, Classic Mouldplast Industries
 Ltd., of 216 Old China Bazar Street, 1st floor.
 Room No. 1, Calcutta-700001, West Bengal,
 India, an Indian company, "TROLLEY", 20th January 1998.

T. K. CHATTOPADHYAY Dy. Controller of Patents & Designs

भारत सरकार मक्जालय, फरीदाबाद द्वारा मुद्रित प्रवन्धक. नियंत्रक, दिल्ली द्वारा प्रकाशित. तर्वं प्रकाशन PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, FARIDABAD, AND PUBLISHED BY THE CONTROLLER OF PUBLICATIONS, DELHI, 2000